A UNITED STATES **DEPARTMENT OF** COMMERCE **PUBLICATION**  CURRENT INDUSTRIAL REPORTS

# Manufacturers' Shipments, Inventories, and Orders

JUN

**March 1971** 



U.S. DEPARTMENT OF COMMERCE Bureau of the Census

13.1581 M3-1 (91)-3

FOR RELEASE: April 30, 1971

New orders for manufactured products in March at \$57.9 billion decreased 0.7 percent or \$400 MENTS that the Wappacturers' New Orders (Seasonally Adjusted)

Billions of D upward from \$57.7 billion), after seasonal adjustment. New Orders excluding transportation equipment increased \$400 million to \$50.1 billion. Shipments increased \$500 million or 0.9 percent to \$58.3 billion from \$57.8 billion (revised) in February. Unfilled orders declined \$400 million to \$83.6 billion at the end of March. Manufacturers' inventories declined \$300 million to \$99.2 billion from \$99.5 billion at the end of February. The inventories to shipments ratio decreased to 1.70 from 1.72 in February.

For the three months ending with March, the average change in new orders represents an increase of 0.9 percent compared with an increase of 0.6 percent for the three months ending with December and a decrease of 0.1 percent for the three months ending with September.

#### **NEW ORDERS**

New orders for durable goods at \$31.5 billion decreased 1.1 percent or \$400 million from \$31.9 billion in February (revised upward from \$31.4 billion). New orders for transportation equipment declined \$800 million to \$7.8 billion as a large decline in the shipbuilding and railroad equipment group was partially offset by an increase in the aerospace industry. New orders for the machinery industries increased \$200 million to \$9.6 billion and for primary metals increased \$100 million to \$5.2 billion.

Among the supplementary series, new orders for defense products decreased \$700 million and for producers' capital goods decreased \$900 million, both influenced primarily by the decline in the shipbuilding component. New orders for household durables increased \$200 million to \$2.3 billion.

SERIES: M3-1(71)-3

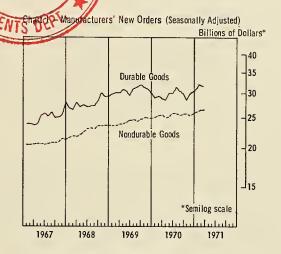
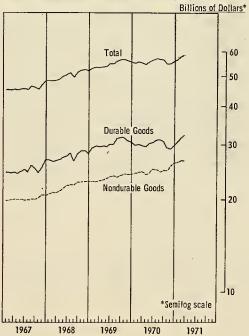


Chart 2 - Manufacturers' Shipments (Seasonally Adjusted)



#### SHIPMENTS

Shipments of durable goods increased \$600 million or 1.9 percent to \$32.0 billion in March from the February total of \$31.4 billion (revised upward from \$31.0 billion). Shipments of transportation equipment increased \$300 million to \$8.4 billion, with the rise being primarily in the aerospace industry. Shipments of the primary metals industries increased \$200 million to \$5.0 billion. Shipments of nondurable goods declined \$100 million to \$26.4 billion as increases in the food and textiles industries were more than offset by declines in the chemicals, petroleum, and other nondurable goods industries.

#### UNFILLED ORDERS

Unfilled orders for durable goods declined \$500 million to \$80.4 billion at the end of March. Unfilled orders for transportation equipment declined \$600 million to \$27.9 billion, primarily in the aerospace group. Unfilled orders for the primary metals industries increased \$100 million to \$8.0 billion.

#### INVENTORIES

Inventories in the nondurable goods industries declined \$300 million to \$33.9 billion while those in the durable goods industries remained virtually unchanged at \$65.3 billion. At the all manufacturing level, work in process inventories declined \$200 million and materials and supplies declined \$100 million while finished goods remained unchanged from February.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The advance report is based on a tabulation of early reports and is limited to statistics on shipments, new orders, and unfilled orders for a few broad industries categories. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for March is scheduled for release on May 21, 1971 and the full report is scheduled for release on June 2.

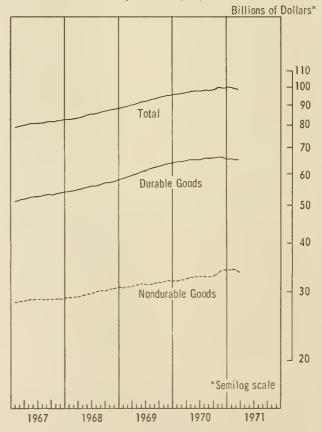
For an explanation of terms used in this report see appendix following table 5.

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233.

Chart 3 — Manufacturers' Unfilled Orders (Seasonally Adjusted)



Chart 4 - Total Inventory (Seaconally Adjusted)



|  |                            |                         | (Million                   | s of dol                   | lars)                   |                            |                               |                                 |                               |                             |                                   |                          |  |  |
|--|----------------------------|-------------------------|----------------------------|----------------------------|-------------------------|----------------------------|-------------------------------|---------------------------------|-------------------------------|-----------------------------|-----------------------------------|--------------------------|--|--|
|  | Season                     | ally adj                | usted                      |                            | out seas<br>justment    |                            | Season                        | ally adj                        | usted                         | Without seasonal adjustment |                                   |                          |  |  |
| Iodustry group   | Mar.<br>1971 <sup>p</sup>  | Feb.<br>1971            | Jan.<br>1971               | Mar.<br>1971 <sup>p</sup>  | Feb.<br>1971            | Mar.<br>1970               | Mar.<br>1971 <sup>p</sup>     | Feb.<br>1971                    | Jan.<br>1971                  | Mar.<br>1971 <sup>p</sup>   | Feb.<br>1971                      | Mar.<br>1970             |  |  |
|  |                            |                         | Shipm                      | ents                       |                         |                            | Total inventories             |                                 |                               |                             |                                   |                          |  |  |
| All manufacturing industries: Total  | 58,317                     | 57,803                  | 56,504                     | 60,472                     | 58,523                  | 57,173                     | 99,210                        | 99,520                          | 99,801                        | 99,740                      | 100,075                           | 97,504                   |  |  |
| Total, excluding transportation  | 49,930                     | 49,695                  | 49,180                     | 51,472                     | 50,109                  | 49,543                     | 84,588                        | 84,828                          | 84,888                        | 85,024                      | 85,272                            | 81,890                   |  |  |
| Durable goods industries, total  | 31,958                     | 31,352                  | 30,545                     | 33,649                     | 31,946                  | 31,248                     | 65,311                        | 65,347                          | 65,610                        | 65,664                      | 65,643                            | 64,599                   |  |  |
| Stooe, clay, and glass products  | 1,649                      | 1,614                   | 1,613                      | 1,605                      | 1,471                   | 1,464                      | 2,648                         | 2,653                           | 2,663                         | 2,743                       | 2,720                             | 2,627                    |  |  |
| Primary metals, total  | 5,042<br>2,352<br>2,690    | 4,805<br>2,308<br>2,497 | 4,746<br>2,253<br>2,493    | 5,375<br>2,573<br>2,802    | 5,022<br>2,394<br>2,628 | 4,994<br>2,229<br>2,765    | 9,200<br>4,987<br>4,213       | 9,210<br>4,958<br>4,252         | 9,159<br>4,939<br>4,220       | 9,186<br>4,942<br>4,244     | 9,277<br>5,022<br>4,255           | 8,244<br>4,319<br>3,925  |  |  |
| Fabricated metal products, total Metal cans, barrels, and drums  | 3,188<br>255               | 3,189<br>356            | 3,230<br>383               | 3,247<br>250               | 3,182<br>321            | 3,246<br>289               | 7,021<br>758                  | 6,969<br>768                    | 6,990<br>838                  | 7,026<br>741                | 6,929<br>744                      | 6,747<br>791             |  |  |
| Machinery, except electrical, total Engines and turbines Farm machinery and equipment Construction, mining, and material | 5,577<br>564<br>491<br>759 | 5,507<br>430<br>504     | 5,603<br>520<br>473<br>809 | 6,020<br>648<br>602<br>784 | 5,717<br>424<br>557     | 5,844<br>549<br>552<br>749 | 13,963<br>980<br>997<br>2,488 | 14,011<br>1,005<br>989<br>2,456 | 14,013<br>996<br>995<br>2,456 | 14,104<br>983<br>1,042      | 14,147<br>1,018<br>1,042<br>2,505 | 13,580<br>952<br>1,016   |  |  |
| bandling equipment   | 331<br>494                 | 320<br>533              | 333<br>541                 | 362<br>524                 | 336<br>552              | 357<br>555                 | 1,091                         | 1,079<br>1,172                  | 1,090                         | 1,085                       | 1,082                             | 1,159<br>1,155           |  |  |
| Electrical machinery, total Electrical transmission and distribution   | 3,993                      | 4,017                   | 3,989                      | 4,153                      | 4,072                   | 3,870                      | 9,518                         | 9,431                           | 9,468                         | 9,507                       | 9,373                             | 9,528                    |  |  |
| equipment and industrial apparatus<br>Household appliances, including radio  | 797                        | 813<br>792              | 777<br>781                 | 837                        | 828<br>792              | 772<br>779                 | 2,133                         | 2,118                           | 2,110                         | 2,138                       | 2,123                             | 1,988                    |  |  |
| and TVCommunication equipment  | 853<br>1,118               | 1,181                   | 1,253                      | 868<br>1,175               | 1,203                   | 1,100                      | 2,064                         | 1,980<br>2,730                  | 1,994<br>2,753                | 2,039<br>2,744              | 1,961<br>2,708                    | 2,089<br>2,843           |  |  |
| Transportation equipment, total  Motor vehicles and parts  Aircraft, missiles, and parts                                 | 8,387<br>4,812<br>2,874    | 8,108<br>4,762<br>2,615 | 7,324<br>4,203<br>2,436    | 9,000<br>5,276<br>2,979    | 8,414<br>4,991<br>2,685 | 7,630<br>3,898<br>3,055    | 14,622<br>4,087<br>8,374      | 14,692<br>4,080<br>8,512        | 14,913<br>4,105<br>8,619      | 14,716<br>4,099<br>8,413    | 14,803<br>4,166<br>8,495          | 15,614<br>4,140<br>9,489 |  |  |
| Instruments and related products   | 1,073                      | 1,115<br>2,997          | 1,115<br>2,925             | 1,090<br>3,159             | 1,087<br>2,981          | 1,223<br>2,977             | 2,628<br>5,711                | 2,621<br>5,760                  | 2,648<br>5,756                | 2,628<br>5,754              | 2,610<br>5,784                    | 2,582<br>5,677           |  |  |
| Noodurable goods industries, total   | 26,359                     | 26,451                  | 25,959                     | 26,823                     | 26,577                  | 25,925                     | 33,899                        | 34,173                          | 34,191                        | 34,076                      | 34,432                            | 32,905                   |  |  |
| Food and kindred products, total Meat products   | 9,104<br>1,631             | 8,960<br>1,669          | 8,787<br>1,683             | 9,063<br>1,609             | 8,926<br>1,627          | 8,717<br>1,785             | 7,738<br>789                  | 7,857<br>787                    | 7,863<br>783                  | 7,631<br>816                | 7,868<br>817                      | 7,382<br>864             |  |  |
| Tobacco products Textile mill products   | 479<br>1,972               | 471<br>1,919            | 483<br>1,910               | 463<br>2,013               | 448<br>1,890            | 430<br>1,862               | 2,179<br>3,275                | 2,239<br>3,262                  | 2,187<br>3,245                | 2,284<br>3,344              | 2,364<br>3,318                    | 2,263<br>3,496           |  |  |
| Paper and allied products, total Pulp, paper, etc  | 2,454<br>1,102             | 2,453<br>1,098          | 2,433<br>1,101             | 2,532<br>1,146             | 2,479<br>1,118          | 2,430<br>1,066             | 2,766<br>1,099                | 2,791<br>1,108                  | 2,821                         | 2,772<br>1,104              | 2,778<br>1,112                    | 2,691<br>1,053           |  |  |
| Chemicals and allied products, total Industrial chemicals, except pigments   | 4,204<br>1,444             | 4,372<br>1,486          | 4,128<br>1,461             | 4,351<br>1,505             | 4,371<br>1,508          | 4,392<br>1,472             | 7,167<br>2,242                | 7,173<br>2,284                  | 7,147<br>2,302                | 7,284<br>2,294              | 7,310<br>2,341                    | 6,756<br>2,221           |  |  |
| Petroleum and coal products  | 2,263                      | 2,317                   | 2,320                      | 2,222                      | 2,317                   | 2,085                      | 2,444                         | 2,490                           | 2,529                         | 2,425                       | 2,445                             | 2,327                    |  |  |
| Ail other nondurable goods industries  | 1,534                      | 1,531<br>4,428          | 1,474<br>4,424             | 1,599<br>4,580             | 1,544<br>4,602          | 1,618<br>4,391             | 1,953<br>6,377                | 1,940<br>6,421                  | 1,940<br>6,459                | 1,979<br>6,357              | 1,971<br>6,378                    | 1,987<br>6,003           |  |  |
|  |                            |                         | New o                      | rders                      |                         |                            | Unfilled orders               |                                 |                               |                             |                                   |                          |  |  |
| All manufacturing industries:  |                            |                         |                            |                            |                         |                            |                               |                                 |                               |                             |                                   |                          |  |  |
| Total Total, excluding transportatioa  | 57,892                     | 58,288<br>49,689        | 57,377<br>49,505           | 60,191<br>51,780           | 59,630<br>50,883        | 56,352<br>49,203           | 83,568<br>55,712              | 83,994<br>55,523                | 83,511<br>55,530              | 84,259<br>56,603            | 84,540<br>56,295                  | 86,944<br>56,642         |  |  |
| Durable goods industries, total  |                            | 31,867                  | 31,405                     | 33,347                     | 33,027                  | 30,412                     | 80,386                        | 80,843                          | 80,330                        | 81,090                      | 81,394                            | 83,991                   |  |  |
| Primary metals, total  | 5,178                      | 5,100                   | 5,428                      | 5,614                      | 5,865                   | 4,874                      | 8,031<br>4,818                | 7,894                           | 7,597<br>4,504                | 8,979<br>5,637              | 8,742                             | 7,318                    |  |  |
| Fabricated metal products  | 2,431<br>3,113             | 2,543<br>3,075          | 2,906                      | 2,780<br>3,199             | 3,077                   | 2,200<br>3,322             |                               | 4,739<br>10,661                 |                               | 10,678                      | 5,431<br>10,726                   | 3,552<br>10,525          |  |  |
| Machinery, except electrical, total Engines and turbines   | 5,671<br>827               | 5,462<br>438            | 5,419<br>555               | 6,139<br>898               | 5,724<br>416            | 5,601<br>445               |                               | 15,610<br>4,770                 | 15,656<br>4,762               | 15,749 5,003                | 15,629<br>4,753                   | 16,825<br>4,840          |  |  |
| Construction, mioing, and material handling equipment.  Metalworking machinery.  General industrial machinery            | 751<br>280<br>527          | 757<br>281<br>564       | 726<br>316<br>450          | 810<br>311<br>553          | 808<br>301<br>597       | 799<br>259<br>· 536        | 2,112<br>1,081<br>1,622       | 2,120<br>1,131<br>1,590         | 2,155<br>1,170<br>1,559       | 2,163<br>1,072<br>1,630     | 2,137<br>1,122<br>1,602           | 2,248<br>1,582<br>1,659  |  |  |
| Electrical machinery, total  | 3,927                      | 3,958                   | 3,985                      | 4,038                      | 4,042                   | 3,822                      | 13,018                        | 13,084                          | 13,144                        | 12,837                      | 12,953                            | 13,473                   |  |  |
| Electrical transmission and distribution<br>equipment and industrial apparatus<br>Household appliances, including radio  | 794                        | 753                     | 766                        | 811                        | 826                     | 762                        | 3,257                         | 3,259                           | 3,320                         | 3,220                       | 3,246                             | 3,571                    |  |  |
| and TVCommunication equipment  | 878<br>1,027               | 802<br>1,233            | 732<br>1,251               | 859<br>1,085               | 811<br>1,181            | 806<br>1,029               | 552<br>5,631                  | 527<br>5,723                    | 518<br>5,671                  | 512<br>5,536                | 521<br>5,626                      | 574<br>5,463             |  |  |
| Transportation equipment, total  | 7,771<br>2,398             | 8,599<br>2,138          | 7,872<br>2,466             | 8,411<br>2,530             | 8,747<br>2,249          | 7,149<br>2,834             |                               | 28,471<br>19,859                | 27,981<br>20,336              | 27,656<br>19,368            | 28,245<br>19,818                  | 30,302<br>23,240         |  |  |
| All other durable goods industries   | 5,844                      | 5,673                   | 5,785                      | 5,946                      | 5,568                   | 5,644                      | 5,194                         | 5,123                           | 5,178                         | 5,191                       | 5,099                             | 5,548                    |  |  |
| Nondurable goods industries, total   | 1                          | 26,421                  | 25,972                     | 26,844                     | 26,603                  | 25,940                     | 3,182                         | 3,151                           | 3,181                         | 3,169                       | 3,146                             | 2,953                    |  |  |
| Industries with unfilled orders  Industries without unfilled orders  | 7,274                      | 7,175<br>19,246         | 7,154<br>18,818            | 7,412<br>19,432            | 7,247<br>19,356         | 7,047<br>18,893            | 3,182                         | 3,151                           | 3,181                         | 3,169                       | 3,146                             | 2,953                    |  |  |

<sup>-</sup> Represents zero. Preliminary. Revised.

Adjusted for trading-day and calendar-month variations.

Table 2.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, FOR MARKET CATEGORIES AND SUPPLEMENTARY SERIES (Millions of dollars)

| Industry group  | Seasonally adjuated              |                                  |                                  | Without seasonal adjustment <sup>1</sup> |                                  |                                  | Season                              | nally adj                           | Justed                              |                                     | Without seasonal<br>adjustment      |                                     |  |
|---|----------------------------------|----------------------------------|----------------------------------|--|----------------------------------|----------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|
|   | Mar.<br>1971                     | Feb.<br>1971                     | Jan.<br>1971                     | Mar.<br>1971 <sup>p</sup>                | Feb.<br>1971                     | Mar.<br>1970                     | Mar<br>1971                         | Feb.<br>1971                        | Jan.<br>1971                        | Mar<br>1971                         | Feb.<br>1971                        | Mar.<br>1970                        |  |
|   | Shipments                        |                                  |                                  |  |                                  |                                  |                                     | Total inventories                   |                                     |                                     |                                     |                                     |  |
| All manufacturing industries, total   | 58,317                           | 57,803                           | 56,504                           | 60,472                                   | 58,523                           | 57,173                           | 99,210                              | 99,520                              | 99,801                              | 99,740                              | 100,075                             | 97,504                              |  |
| Durable goods industries, total Nondurable goods industries, total  | 31,958<br>26,359                 | 31,352<br>26,451                 | 30,545<br>25,959                 | 33,649<br>26,823                         | 31,946<br>26,577                 | 31,248<br>25,925                 | 65,311<br>33,899                    | 65,347<br>34,173                    | 65,610<br>34,191                    |                                     | 65,643<br>34,432                    | 64,599                              |  |
| Industry groups arranged by market  |                                  |                                  |                                  |  |                                  |                                  |                                     |                                     |                                     |                                     | ,                                   |                                     |  |
| categories:  Home goods and apparel   | 4,887<br>11,526                  | 4,805<br>11,432                  | 4,809<br>11,162                  | 5,176<br>11,498                          | 4,997<br>11,342                  | 4,725<br>11,113                  |                                     | 10,044<br>12,994                    | 10,065<br>12 947                    | 10,043<br>12,827                    | 10,013                              | 9,83                                |  |
| automotive  Automotive equipment  Construction materials, supplies, and   | 9,411<br>5,382                   | 9,218<br>5,331                   | 9,148<br>4,764                   | 9,983<br>5,857                           | 9,422<br>5,536                   | 9,727<br>4,548                   | 25,967<br>5,188                     | 26,086<br>5,188                     | 26,268<br>5,224                     | 26,187<br>5,274                     | 26,171<br>5,337                     | 26,213<br>5,343                     |  |
| intermediate productsOther materials and supplies and   | 4,878                            | 4,818                            | 4,762                            | 4,855                                    | 4,523                            | 4,417                            | 8,373                               | 8,355                               | 8,328                               | 8,532                               | 8,447                               | 8,159                               |  |
| intermediate products   | 22,233                           | 22,199                           | 21,859                           | 23,103                                   | 22,703                           | 22,643                           | 36,799                              | 36,853                              | 36,969                              | 36,877                              | 36,999                              | 35,519                              |  |
| Supplementary series: Producers' capital goods industries  Producers' capital goods industries  Defense products industries (old series).  Defense products (new series)*   | 2,246<br>6,672<br>4,240<br>1,903 | 2,124<br>6,700<br>4,048<br>1,898 | 2,104<br>6,672<br>3,961<br>1,913 | 2,319<br>7,085<br>4,417<br>1,987         | 2,160<br>6,868<br>4,141<br>1,942 | 2,116<br>6,762<br>4,471<br>2,027 | 5,094<br>17,614<br>11,837<br>6,017  | 5,052<br>17,598<br>11,998<br>6,020  | 5,061<br>17,652<br>12,129<br>6,189  | 5,091<br>17,717<br>11,902<br>6,050  | 5,049<br>17,673<br>11,966<br>6,009  | 5,15:<br>16,81:<br>13,086<br>7,366  |  |
|   |                                  |                                  | New o                            | rders                                    |                                  |                                  | Unfilled orders                     |                                     |                                     |                                     |                                     |                                     |  |
| All manufacturing industries, total   | 57,892                           | 58,288                           | 57,377                           | 60,191                                   | 59,630                           | 56,352                           | 83,568                              | 83,994                              | 83,511                              | 84,259                              | 84,540                              | 86,944                              |  |
| Ourable goods industries, total<br>Nondurable goods industries, total   | 31,504<br>26,388                 | 31,867<br>26,421                 | 31,405<br>25,972                 | 33,347<br>26,844                         | 33,027<br>26,603                 | 30,412<br>25,940                 | 80,386<br>3,182                     | 80,843<br>3,151                     | 80,330<br>3,181                     | 81,090<br>3,169                     | 81,394<br>3,146                     | 83,991<br>2,953                     |  |
| Industry groups arranged by market  |                                  |                                  |                                  |  |                                  |                                  |                                     |                                     |                                     |                                     |                                     |                                     |  |
| categories:  Home goods and apparel  Consumer staples  Equipment and defense products, except   | 4,914<br>11,538                  | 4,799<br>11,436                  | 4,804<br>11,159                  | 5,159<br>11,500                          | 5,011<br>11,353                  | 4,732<br>11,105                  |                                     | 1,870                               | 1,874                               | 1,840                               | 1,854                               | 1,932                               |  |
| Automotive equipment  | 8,937<br>5,372                   | 9,850<br>5,353                   | 9,742<br>4,782                   | 9,591<br>5,813                           | 9,899<br>5,537                   | 9,174<br>4,416                   |                                     | 46,069                              | 45,418                              | 45,256                              | 45,692                              | 47,173                              |  |
| intermediate products Other materials and supplies and intermediate products  | 4,833                            | 4,685                            | 4,420                            | 4,884                                    | 4,464                            | 4,504                            | 10,508<br>25,567                    | 10,555                              | 10,687<br>25,532                    | 10,637<br>26,526                    | 10,609<br>26,385                    | 10,574<br>27,265                    |  |
| Supplementary series: 2  Household durable goods industries  Producers' capital goods industries  Defense products industries (old series).  Defense products (new series)* | 2,268<br>6,644<br>3,669<br>1,653 | 2,113<br>7,518<br>3,618<br>2,357 | 2,107<br>6,990<br>3,988<br>2,170 | 2,296<br>7,085<br>3,868<br>1,756         | 2,174<br>7,630<br>3,674<br>2,281 | 2,124<br>6,406<br>4,186<br>1,670 | 1,531<br>25,065<br>25,466<br>19,977 | 1,509<br>25,093<br>26,039<br>20,227 | 1,522<br>24,277<br>26,469<br>19,769 | 1,474<br>24,858<br>25,349<br>19,795 | 1,496<br>24,858<br>25,899<br>20,025 | 1,578<br>24,738<br>29,200<br>19,819 |  |

\*During 1968 manufacturers in ordonice, communications, aircraft and aircraft parts, and shipbuilding industries began to provide aggregate figures oo sbipments, orders, and total inventories of work performed for the Department of Defense. The results of these reports are included in these new defense series. Since there are no historical data available to develop separate seasonal factors for these reporters, the data have been seasonally adjusted using the factors of these industries. Preliminary. Revised. Shipments and new orders adjusted for trading-day and calendar-month variations; unfilled orders and inventories as of end of month. The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliancas; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Producers' capital goods (formerly machinery and equipment) industries - Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, communication equipment and electronic components), shipbuilding and repairing, and railroad and street car equipment.

Defense products industries (old series) - Based on reports for companies classified in the communication equipment, complete aircraft, aircraft parts, and ordnance industries. (Thus, this series includes significant amounts of nondefense work in these industries and omits defense work performed in the shipbuilding industry.)

Defense products (new series) - 8ased on separate reports on defense work filed by large defense contractors in the following industries: ordnance, communications, complete aircraft, aircraft parts, and shipbuilding. Thus, it differs from the old series in that it includes defense activity in shipbuilding and excludes nondefense work in ordnance, communications, complete aircraft, and aircraft parts. The data are comparable to those published anoually in the MA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 3.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

(Based on seasonally adjusted data)

|   |                      | (Dasca on            | Seasonarry           | aujusteu u              | acaj                    |                      |                      |                         |                      |                    |
|---|----------------------|----------------------|----------------------|-------------------------|-------------------------|----------------------|----------------------|-------------------------|----------------------|--------------------|
|   | Month                | -to-montb            |                      | Aver                    | age monthly             | Average, 1965-1970   |                      |                         |                      |                    |
| Item and industry group   | Feb                  | Jan                  | 2070                 |                         | 3 months                |                      | 12 months            |                         |                      |                    |
| Item and industry group   | Mar.<br>1971         | Feb.<br>1971         |                      | Dec. 1970-<br>Jan. 1971 | Dec. 1970-<br>Mar. 1971 |                      | June-<br>Sept. 1970  | Mar. 1970-<br>Mar. 1971 | Average<br>rise      | Average<br>decline |
| Shipments: All manufacturing industries   | +0.9                 | +2.3                 | +1.2                 | +1.5                    | -0.4                    | 0.0                  | +0.5                 | +1.3                    | -1.1                 |                    |
| Durable goods industries, total Nondurable goods industries, total  | +1.9<br>-0.3         | +2.6<br>+1.9         | +1.7<br>+0.6         | +2.1<br>+0.7            | -0.8<br>+0.3            | +0.3                 | +0.6                 | +2.0<br>+1.0            | -1.7<br>-0.6         |                    |
| Total inventories: All manufacturing industries   | -0.3                 | -0.3                 | +0.2                 | -0.1                    | +0.3                    | +0.3                 | +0.2                 | +0.7                    | -0.3                 |                    |
| New orders: All manufacturing industries Durable goods industries, total Nondurable goods industries, total | -0.7<br>-1.1<br>-0.1 | +1.6<br>+1.5<br>+1.7 | +1.7<br>+2.6<br>+0.6 | +0.9<br>+1.0<br>+0.7    | +0.6<br>+0.9<br>+0.2    | -0.1<br>-0.1<br>-0.1 | +0.6<br>+0.8<br>+0.3 | +1.9<br>+3.1<br>+1.0    | -1.3<br>-2.3<br>-0.7 |                    |
| Unfilled orders: Durable goods industries, total  | -0.6                 | +0.6                 | +1.1                 | +0.4                    | -0.1                    | -0.7                 | -0.3                 | +1.1                    | -0.7                 |                    |

Table 4.--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

| Industry areas  |                           | tories - s   | hipments r   | atio         | Unfilled orders - shipments ratio <sup>1</sup> (montbs' hacklog) |              |              |              |  |  |
|---|---------------------------|--------------|--------------|--------------|--|--------------|--------------|--------------|--|--|
| Industry group  | Mar.<br>1971 <sup>p</sup> | Feb.<br>1971 | Jan.<br>1971 | Mar.<br>1970 | Mar.<br>1971 <sup>p</sup>  | Feb.<br>1971 | Jan.<br>1971 | Mar.<br>1970 |  |  |
| All manufacturing industries, total                         | 1.70                      | 1.72         | 1.77         | 1.76         | 2.35   | 2.47         | 2.43         | 2.55         |  |  |
| Durable goods industries, total                             | 2.04                      | 2.08         | 2.15         | 2.16         | 2.83   | 3.02         | 2.95         | 3.08         |  |  |
| Stone, clay, and glass products                             | 1.61                      | 1.64<br>1.92 | 1.65<br>1.93 | 1.69         | (NA)<br>1.59   | (NA)<br>1.64 | (NA)<br>1.60 | (NA)<br>1.42 |  |  |
| Fabricated metals   | 2.20                      | 2.19         | 2.16         | 2.12         | 3.61   | 3.76         | 3.78         | 3.61         |  |  |
| Machinery, except electricsl                                | 2.50<br>2.38              | 2.54<br>2.35 | 2.50<br>2.37 | 2.48         | 2.82<br>3.26   | 2.83<br>3.26 | 2.79<br>3.30 | 3.09<br>3.67 |  |  |
| Transportation equipment. Instruments and related products. | 1.75<br>2.45              | 1.81<br>2.35 | 2.04<br>2.37 | 2.17<br>2.14 | 5.26<br>(NA)   | 5.73<br>(NA) | 5.99<br>(NA) | 6.06<br>(NA) |  |  |
| Nondurable goods industries, total                          | 1.29                      | 1.29         | 1.32         | 1.28         | 0.44   | 0.44         | 0.45         | 0.43         |  |  |
| Food and kindred products                                   | 0.85                      | 0.88         | 0.89         | 0.85         | (x)  | (x)<br>(x)   | (x)          | (x)          |  |  |
| Tobacco products  | 4.55<br>1.66              | 4.75<br>1.70 | 4.53<br>1.70 | 4.86<br>1.88 | (X)<br>(NA)  | (NA)         | (NA)         | (X)<br>(NA)  |  |  |
| Paper and allied products                                   | 1.13                      | 1.14         | 1.16         | 1.14         | (NA)   | (NA)         | (NA)         | (NA)         |  |  |
| Chemicals and allied products                               | 1.70                      | 1.64         | 1.73         | 1.56<br>1.10 | (x)<br>(x)   | (x)<br>(x)   | (x)<br>(x)   | (x)<br>(x)   |  |  |
| Petroleum and coal products                                 | 1.08                      | 1.07         | 1.32         | 1.26         | (x)  | (x)          | (x)          | (X)          |  |  |

<sup>(</sup>NA) Not available. Preliminary. Revised. (X) Not applicable.

Excludes the following industries with no unfilled orders: Wooden containers; glass containers; metal cans, barrels and drums; motor vehicle assembly operations; foods and related products; tobacco; apparel and related products; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

Table 5.--VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP (Millions of dollars)

| Industry group                      | Seasonally adjusted                          |  |  | Witbout seasonal<br>adjustment            |                                  |  | Seasonally adjusted                       |   |   | Without seasonal adjustment               |   |                                 |  |  |
|-------------------------------------|--|--|--|---|----------------------------------|--|---|---|---|---|---|---------------------------------|--|--|
| Industry group                      | Mar.<br>1971 <sup>p</sup>                    | Feb.<br>1971                                 | Jan.<br>1971                                 | Mar.<br>1971 <sup>p</sup>                 | Feb.<br>1971                     | Mar.<br>1970                                 | Mar.<br>1971 <sup>p</sup>                 | Feb.<br>1971                              | Jan.<br>1971                              | Mar.<br>1971                              | Feb.<br>1971                              | Mar.<br>1970                    |  |  |
|                                     | Total  |  |  |   |                                  |  |   | Materials and supplies                    |   |   |   |                                 |  |  |
| All manufacturing industries, total | 99,210                                       | 99,520                                       | 99,801                                       | 99,740                                    | 100,075                          | 97,504                                       | 30,085                                    | 30,188                                    | 30,262                                    | 29,991                                    | 30,151                                    | 29,55                           |  |  |
| Durable goods industries, total     | 65,311                                       | 65,347                                       | 65,610                                       | 65,664                                    | 65,643                           | 64,599                                       | 17,921                                    | 17,877                                    | 17,954                                    | 17,670                                    | 17,682                                    | 17,45                           |  |  |
| Stone, clay, and glass products     | 2,648<br>9,200<br>23,481<br>14,622<br>15,360 | 2,653<br>9,210<br>23,442<br>14,692<br>15,350 | 2,663<br>9,159<br>23,481<br>14,913<br>15,394 |   | 9,277                            | 2,627<br>8,244<br>23,108<br>15,614<br>15,006 | 844<br>3,213<br>5,802<br>3,015<br>5,047   | 844<br>3,230<br>5,774<br>3,045<br>4,984   | 854<br>3,219<br>5,744<br>3,121<br>5,016   | 847<br>3,035<br>5,766<br>3,036<br>4,986   | 843<br>3,131<br>5,706<br>3,082<br>4,920   | 2,85<br>5,49<br>3,11<br>5,11    |  |  |
| Nondurable goods industries, total  | 33,899                                       | 34,173                                       | 34,191                                       | 34,076                                    | 34,432                           | 32,905                                       | 12,164                                    | 12,311                                    | 12,308                                    | 12,321                                    | 12,469                                    | 12,0                            |  |  |
| Chemicals and allied products       | 7,167<br>2,444<br>1,953<br>22,335            | 7,173<br>2,490<br>1,940<br>22,570            | 7,147<br>2,529<br>1,940<br>22,575            | 7,284<br>2,425<br>1,979<br>22,388         | 1,971                            | 6,756<br>2,327<br>1,987<br>26,489            | 2,394<br>547<br>629<br>8,594              | 2,378<br>593<br>622<br>8,718              | 2,364<br>609<br>620<br>8,715              | 2,393<br>555<br>606<br>8,767              | 2,381<br>574<br>610<br>8,904              | 2,2<br>5<br>5<br>8,6            |  |  |
|                                     |  |  | Work in                                      | process                                   |                                  |  | Finished goods                            |   |   |   |   |                                 |  |  |
| All manufacturing industries, total | 34,473                                       | 34,696                                       | 35,038                                       | 34,705                                    | 34,866                           | 35,255                                       | 34,652                                    | 34,636                                    | 34,501                                    | 35,044                                    | 35,058                                    | 32,6                            |  |  |
| Ourable goods industries, total     | 29,546                                       | 29,747                                       | 30,076                                       | 29,808                                    | 29,924                           | 30,325                                       | 17,844                                    | 17,723                                    | 17,580                                    | 18,186                                    | 18,037                                    | 16,8                            |  |  |
| Stone, clay, and glass products     | 381<br>3,025<br>10,628<br>10,155<br>5,357    | 392<br>3,094<br>10,655<br>10,163<br>5,443    | 400<br>3,128<br>10,732<br>10,310<br>5,506    | 414<br>3,078<br>10,723<br>10,205<br>5,388 | 408<br>3,154<br>10,754<br>10,183 | 422<br>2,816<br>10,965<br>10,878<br>5,244    | 1,423<br>2,962<br>7,051<br>1,452<br>4,956 | 1,417<br>2,886<br>7,013<br>1,484<br>4,923 | 1,409<br>2,812<br>7,005<br>1,482<br>4,872 | 1,482<br>3,073<br>7,122<br>1,475<br>5,034 | 1,469<br>2,992<br>7,060<br>1,538<br>4,978 | 1,3<br>2,5<br>6,6<br>1,5<br>4,6 |  |  |
| Nondurable goods industries, total  | 4,927  | 4,949  | 4,962  | 4,897                                     | 4,942                            | 4,930  | 16,808                                    | 16,913                                    | 16,921                                    | 16,858                                    | 17,021                                    | 15,8                            |  |  |
| Chemicals and allied products       | 952<br>491<br>326<br>3,158                   | 938<br>514<br>311<br>3,186                   | 881<br>529<br>306<br>3,246                   | 955<br>488<br>321<br>3,133                | 947<br>509<br>309<br>3,177       | 884<br>541<br>318<br>3,187                   | 3,821<br>1,406<br>998<br>10,583           | 3,857<br>1,383<br>1,007<br>10,666         | 3,902<br>1,391<br>1,014<br>10,614         | 3,936<br>1,382<br>1,052<br>10,488         | 3,982<br>1,362<br>1,052<br>10,625         | 3,5<br>1,2<br>1,0<br>9,9        |  |  |

Preliminary.

# **Appendix**

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

### DESCRIPTION OF THE SURVEY

The Manufacturers' Shipments, Inventories, and Orders survey provides monthly figures that are comparable to the annual totals published each year in the annual survey of manufactures (ASM). The ASM is based on a sample of approximately 60,000 manufacturing establishments drawn from the 5-year census universe of about 310,000 estab-In the ASM, each manufacturing lishments. establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. The establishments do not provide information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification System (SIC) and area data for industry groups.

The monthly survey M3-1 does not provide information at the complete SIC industry detail because of the smaller size of the reporting panel and the fact that most companies cannot provide shipments, inventories, and orders data monthly for individual establishments.

The monthly reporting panel consists of approximately 5,000 reporting units and includes virtually all companies with 1,000 or more employees and a sample of the smaller ones. The reporting unit typically comprises the entire operations of a company although many of the larger diversified companies file separate divisional type reports for their operations in different industries.

Most of the reporting units include mixed industry activity even within the broad industry categories of the monthly survey. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category represent effectively the month-to-month movements of the establishments in the SIC industries which make up the category. Thus, the monthly reports are used to update the ASM estimates by using a link relative of matched companies in each industry.

## **EXPLANATION OF TERMS**

Value of Shipments--Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the aircraft industry and shipbuilding, the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed aircraft or ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for the all manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from one division of the company to another as if they were net sales to outside customers. Although this



definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders Received and Unfilled Orders --Orders as reported in the monthly survey are net of cancellations during the month. They include orders received during the period and also filled during the period as well as those orders received for future delivery. They also include the net sales value of contract change documents which increase or decrease the sales value of the unfilled orders to which they relate. Orders include only those supported by binding legal documents such as signed contracts, or letter contracts. In case of letter contracts the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included. The respondent is instructed to deduct the sales value of paritial or complete cancellation of existing orders.

Unfilled orders include orders as defined above that have not yet passed through the sales account. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net sales.

While both new orders and unfilled orders are used in reviewing individual company reports for consistency, only unfilled orders are estimated directly in the tabulated totals. New orders are derived from the shipments plus net change in unfilled orders for each industry category. This procedure is followed for seasonally adjusted data as well as for the unadjusted data. Shipments and unfilled orders are seasonally adjusted independently. Seasonally adjusted new orders are derived from seasonally adjusted shipments and seasonally adjusted unfilled orders.